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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
First Vice-Rector
_____ / Trankovskaya L.V./
"9" июня 2025

DISCIPLINE WORK PROGRAM

Б1.О.20 Epidemiology

(name of discipline)

Specialty	**31.05.01 General Medicine for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system)
Mode of study	Full-time
Period of mastering the BEP	**6 years** (nominal length of study)
Department	of Epidemiology and Military Epidemiology

Vladivostok, 2025

Program of the discipline **Б1.О.20 Epidemiology** is based on:
1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 988 of Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020.

2) Curriculum for the 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia, Report No. 8/24-25 dated March 31, 2025.

Work program for the discipline was developed by the writing team of the Department of Epidemiology and Military Epidemiology of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the head of the department Candidate of Medical Sciences, Associate professor Skurikhina Yu.E.

Developed by:

Head of the Department	Candidate of Medical Sciences, Associate professor	Skurikhina Yu.E.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering Б1.О.20 Epidemiology

The purpose of mastering the discipline is mastering the theoretical and methodological foundations of identifying the causes, conditions, and mechanisms of the formation of incidence of diseases (infectious and non-infectious), the skills of carrying out preventive and anti-epidemic measures.

Objectives of mastering the discipline:

1. Developing an epidemiological approach to the study of human diseases;
2. Mastering methods of epidemiological research (evidence-based medicine);
3. Studying patterns of development of the epidemic process and the system of anti-epidemic measures;
4. Acquiring practical skills of the using anti-epidemic means and organizing of anti-epidemic and preventive measures;
5. Mastering the basics of organizing and conducting anti-epidemic measures in emergency situations.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.О.20 Epidemiology** is included in the Mandatory part of the Unit 1 of the basic educational program for the specialty 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), and is part of the 9th semester's curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.О.20 Epidemiology** is aimed at the development of students' competencies. The discipline facilitates the development of students' competencies corresponding to the types of professional activity.

Name of competency category (group)	**Code and Name of competency of the graduate**	**Competency Indicators**
General Professional Competencies		
Primary health care	GPC-6. Is able to manage patient care, provide primary health care, ensure efficient decision-making at prehospital stage in case of medical emergencies, in emergency situations, during epidemics, and in areas affected by weapons of mass destruction	CI.GPC-6_1- defines objectives and manages patient care CI.GPC-6_2- provides primary health care at prehospital stage in case of medical emergencies CI.GPC-6_3- - identifies necessary types and scope of primary health care during emergencies, epidemics, and in areas affected by weapons of mass destruction

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **Б1.О.20 Epidemiology**:

Types of professional activity objectives

1. Medical

Kinds of professional activity objectives

1. disease prevention

3.3. Planned learning outcomes of mastering the discipline are represented by knowledge, skills, abilities and/or experience, characterize the stages of developing competencies and ensure

achievement of the planned outcomes of mastering the basic educational program. Learning outcomes of a discipline are correlated with competency indicators.

4. SCOPE AND CONTENT OF THE DISCIPLINE

4.1. Scope of the Discipline and Types of Academic Work

Type of Academic Work		**Total Hours**	**Semesters**
			9
			hours
1		2	3
Classroom hours (total), including:		**72**	**72**
Lectures (L)		20	20
Practical classes (C)		52	52
Independent work of the student (IW), including:		**36**	**36**
Preparing for classes (CP)		12	12
Preparing slides presentations		10	10
Preparing for continuous assessment (CAP)		10	10
Preparation for interim assessment (IAP)		4	4
Interim assessment			
Type of interim assessment	pass/fail test (T)	T	T
	exam (E)		
TOTAL: TOTAL credit value	hrs.	**108**	**108**
	credits	**3**	**3**

4.2. Contents of the Discipline

4.2.1. Topics of Discipline Lectures and Academic Hours per Semester

No.	**Lecture Topic**	**Hours**
1	2	3
	Semester No. 9	
1.	Introduction to epidemiology	2
2.	Epidemiological studies (evidence-based medicine)	2
3.	The state and prospects of disinfection	2
4.	Status and prospects of immunoprophylaxis	2
5.	Peculiarities of the epidemiology of infections with vertical transmission mechanism	2
6.	Healthcare-associated infections	2
7.	Flu and acute respiratory viral infections	2
8.	Sanitary protection of the territory	2
9.	Clinical epidemiology	2
10.	Organization of anti-epidemic measures in emergency situations	2
	Hours per semester total	**20**

4.2.2. Topics of Discipline Practical Classes and Academic Hours per Semester

No.	**Practical Class Topic**	**Hours**

1	2	3
	Semester No. 9	
	Module 1. General Epidemiology	
1	Epidemiological approach to the study of human diseases	2
2	Basic epidemiological concepts	2
3	Theories of the epidemic process	2
4	Epidemiological studies (descriptive, analytical, experimental), its organization. Epidemiological statistics. Epidemiological method	2
5	Descriptive epidemiological studies, Their organization	2
6	Analytical epidemiological studies (cohort, case-control, correlation), their organization	2
7	Anti-epidemic measures. Concepts, classification	2
8	Anti-epidemic measures for airborne infections	2
9	Anti-epidemic measures for infections transmitted via the fecal-oral and contact routes	2
10	Disinfection and sterilization. Classification, basic concepts	2
11	Disinfection measures	2
12	Immunoprophylaxis. Organization and planning	2
13	Types and methods of vaccine administration. Contraindications and post-vaccination complications	2
14	Immunization schedule	2
	Module 2. Special (Specialty) Epidemiology	
15	Epidemiology of anthroponoses: airborne infections	2
16	Epidemiology of anthroponoses: fecal-oral infections	2
17	Epidemiology of anthroponoses: contact infections	2
18	Epidemiology of zoonoses	2
19	Epidemiology of sapronoses	2
20	Healthcare-Associated Infections (HAIs)	2
21	Prevention of Healthcare-Associated Infections	2
22	Epidemiology and prevention of HIV infection, parenteral viral hepatitides	2
23	Particularly dangerous infections. Epidemiology and prevention	2
24	Epidemiology of non-infectious diseases. Cardiovascular diseases	2
25	Epidemiology of non-infectious diseases. Oncological diseases	2
26	Final class session, pass/fail test	2
	Hours per semester total	**52**

4.2.3. Independent Work of the Student

No.	**Name of the Discipline Section**	**Type of IW**	**Total Hours**
1	3	4	5
	Semester No. 9		
1	General Epidemiology	Preparing for practical classes; preparing for tests, preparing slides presentations; preparing for interim assessment	18
2	Special (Specialty) Epidemiology	Preparing for practical classes; preparing for tests, preparing slides presentations; preparing for interim assessment	18
	Hours per semester total		**36**

5. REQUIREMENTS FOR IMPLEMENTATION OF DISCIPLINE

5.1. Discipline Requirements for Educational Materials and Provided Information

Essential reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Epidemiology: textbook / ed. N. I. Briko. — Moscow : GEOTAR-Media, 2024. — 552 p. : ill.	ed. N. I. Briko	Moscow : GEOTAR-Media, 2024. — 552 p. Electronic version on the website of the EBS «Консультант студента» URL: https:studentlibrary.ru/book/ISBN9785970485552.html	1

Supplementary reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Mim's Medical Microbiology and Immunology	R. V. Goering, H. M. Dockrell, M. Zukerman, P. L. Chiodini	Mim's Medical Microbiology and Immunology / R. V. Goering, H. M. Dockrell, M. Zukerman, P. L. Chiodini. - 6th ed. - Edinburgh : Elsevier, 2019. - 552 p. : il. - ISBN 978-0-7020-7156-0	1

Online resources

1. Electronic library system "Student Consultant" http://studmedlib.ru/
2. Electronic library system "University Library Online"http://www.biblioclub.ru/
3. Electronic library system "Urait" https://urait.ru/
4. Electronic library system "BookUp" https://www.books-up.ru/
5. Resources owned by the Library and Information Center of FSBEI HE PSMU of the Ministry of Health of Russia https://tgmu.ru/university/bibliotechno-informacionnyj-centr/resursy-bic/sobstvennye/

Online resources and respective user guides are available on the Library and Information Center website Library and Information Center — PSMU (tgmu.ru)

5.2. Discipline Requirements for Facilities and Resources

Information on the facility and resource availability and requirements of the discipline is available on the Facility and resource availability and requirements. FSBEI HE PSMU of the Ministry of Health of Russia (tgmu.ru)" page of the official website of the university.

5.3. List of Information Technologies, Information and Reference Systems, Licensed and Free Software (Including Domestically-developed Software):

1. PolycomTelepresence M100 Desktop Conferencing Application (Videoconference system)
2. SunRav Software tTester
3. 7-PDF Split & Merge
4. ABBYYFineReader
5. Kaspersky Endpoint Security
6. INDIGO online testing system
7. Microsoft Windows 7
8. Microsoft Office Pro Plus 2013
9. 1C:University
10. GARANT system
11. MOODLE (Modular Object-Oriented Dynamic Learning Environment)

6. ASPECTS OF THE IMPLEMENTATION OF THE DISCIPLINE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

6.1. Availability of Accessible Environment

For students with disabilities and special needs, if a written application is submitted, lectures and practical classes are carried out taking into account health limitations, individual capabilities and medical status (hereinafter referred to as individual characteristics) of the student. Compliance with the following general requirements is ensured: teaching aids for collective and individual use are provided, required technical assistance is provided by an assistant; buildings and premises where lectures and practical classes are taking place meet accessibility requirements, other arrangements lack of which makes it impossible or difficult to master the discipline are made.

6.2. Ensuring Compliance with General Requirements

When lectures and practical classes are carried out at the written application of the student, the following general requirements are met: lectures and practical classes for students with disabilities and special needs take place at the same location as for students who do not have disabilities, if this does not cause difficulties for students; an assistant (assistants), who provide(s) students with the necessary technical assistance taking into account individual characteristics of the student, is (are) provided; necessary teaching aids are provided, taking into account individual characteristics of the student.

6.3. Availability of the Internal Policies and Procedures of FSBEI HE PSMU of the Ministry of Health of Russia to Students with Disabilities in a Format Accessible to Them.

All internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia concerning the discipline are made available to students with disabilities in a format accessible to them.

6.4. Increase in the Time Limit of Interim Assessment for Students with Disabilities and Special Needs in Relation to the Established duration

Format of the interim assessment of academic performance within the scope of the discipline conducted for students with disabilities and special needs is selected taking into account individual characteristics of the students (orally, by writing on paper, by typing on a computer, as a test, etc.). The duration of the interim assessment in relation to the established duration is increased at the written application of the student with disabilities. Time limit for the student's preparation for the test is increased by at least 0.5 hours.

7. STAFFING REQUIREMENTS OF THE DISCIPLINE

Academic teaching personnel that ensure the implementation of the discipline education process meet the requirements of the Federal State Educational Standard of Higher Education for the 31.05.01 General Medicine for international students (in English) specialty; list of the aforementioned personnel is available on the website of the educational organization.

8. TUTORIAL WORK

Type of tutorial work	Forms and approaches to tutorial work	Assessment criteria
Assistance in personal growth	Overt Conversations and discussions promoting a healthy lifestyle. Participation in conferences on healthy living.	Portfolio
	Covert – creating atmosphere and infrastructure. Creating a friendly, respectful atmosphere. Fostering a culture of health preservation.	
Civic position and values	Overt Events fostering civil-legal culture (round tables, discussions).	Portfolio
	Covert Emphasizing civic values and legal culture in professional practice.	
Social values	Overt Addressing issues of healthy lifestyle and health-saving technologies. Discussing environmental impact on public health.	Portfolio
	Covert Fostering social identity through education and profession.	